



Missouri Department of Natural Resources

SECTION 303(d) WATERS

STATE OF MISSOURI

September 23, 1998

The following waters were adopted by the Missouri Clean Water Commission as the 1998 list of waters designated under section 303(d) of the federal Clean Water Act. The federal Water Pollution Control Act, section 303(d), requires that each state identify those waters for which existing required pollution controls are not stringent enough to implement state water quality standards. For these waters, states are required to establish total maximum daily loads (TMDLs) according to a priority ranking. The waters listed below are not expected to attain water quality standards through the implementation of any currently required pollution control technology.

The Commission accepted the Department of Natural Resources recommendations for changes to the list from the August 11, 1998 public notice and in addition included three waters previously suggested by public comment. The four recommended changes to the list were the following: 1) deletion of Bear Creek (Boone County Sewer District; Jerry Morris Subdivision lagoon has been closed); 2) change of the distance impaired on Long Creek to read 0.2 miles; 3) change of the James River entry by adding waterbody identification number 2347 and changing miles affected to 59; and 4) removal of the Higginsville North Lake from Category One list (this lake is no longer a drinking water lake). In addition the double listing of Wyaconda Lake was eliminated (the lake remains listed in category two). The Commission added Cave Spring Branch in McDonald County, and the Mississippi and Missouri Rivers.

The list includes three categories of waters and each category will be managed differently, as described. Category One waters are proposed for full TMDL development as indicated in the schedule. These waters and schedules are similar to the proposal that has been public noticed earlier. Some of the waters listed for BOD and NFR contaminants may be remedied through the establishment of conventional wastewater treatment technology at the noted sources, or the normal processes of inspection, permitting and enforcement; if these remedies are not successful in attaining water quality standards, additional work based on TMDL development would then proceed. Four of these facilities are in enforcement and two are referred to the Attorney General=s Office. Category Two waters are a subset of the waters that are reported as impaired in the 305(b) report (Missouri Water Quality Report), but for which the data is older or of lesser quality than those waters contained in List One. These waters include those that are impaired from sediment from runoff or channelization, organic enrichment from wastewater or other contaminants. These waters are scheduled for further monitoring; if the additional monitoring confirms the impaired condition, full TMDL development would proceed. Category Three waters are presently recognized as impaired, but unlike Category One, there is no practicable remedy for these waters. These waters are impaired by naturally occurring constituents or sediment contaminated with low levels of chlordane, which results in a fish consumption advisory. Additional actions on these waters will consist of use attainability analyses to examine the naturally occurring contaminants (such as manganese concentrations) or TMDLs that address conditions that are very difficult to remediate (such as widespread sediment contamination with chlordane).

CATEGORY 1
RECOMMENDED SECTION 303(d) WATERS REQUIRED TO HAVE TMDLS

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule |
|---------------------------------|-----------------|------------------------------------|-----------------------------|-----------------------------------|----------------------------------|-----------------|
| <u>Streams/Rivers</u> | | | | | | |
| 1529 Little Beaver Creek | Phelps | 0.1 | NFR | Rolla SW WWTP | L | 2005 |
| 1746 Big Bottom Creek | Ste. Genevieve | 0.5 | BOD, NFR | Lake Forest Subdivision | L | 2003 |
| 2916 Big Creek | Iron | 4 | Metals | Lead smelter | H | 2004 |
| 1224 Big Otter Creek | Henry/St. Clair | 1 | pH | Otter Creek coal area | (2) | 2004 |
| 2074 Big River | Jefferson | 53 | Lead | Old Lead Belt tailings | H | 2004 |
| 2080 Big River | St. Francis | 40 | Lead, sediment | Old Lead Belt tailings | H | 2004 |
| 2755 W. Fk. Black River | Reynolds | 0.2 | Nutrients | W. Fork Mine | L | 2003 |
| 0811 E. Brush Creek | Moniteau | 1 | BOD, NFR | California N. | L | 2006 |
| 1370 Brush Creek | St. Clair | 1 | Inundation | Truman Dam | L | 2007 |
| 1592 Brushy Creek | Texas | 0.2 | NFR | Houston STP | L | 2005 |
| 0859 Brushy Fork | Pettis | 1 | BOD, NFR, NH ₃ N | Sedalia WWTP | L | 1997 |
| 3269, 3273 Buffalo Creek | McDonald/Newton | 9 | Nutrients | Livestock production | M | 2003 |
| 3118 Buffalo Ditch | Dunklin | 3 | BOD | Kennett WWTP | *(1) | 2005 |
| 0709 Bynum Creek | Callaway | 0.3 | Sediment | Auxvasse Stone Quarry | L | 2006 |
| 0103 Cannon Re-reg pool | Ralls | 10 | Iron | Cannon Dam releases | M | |
| | | | Manganese | Cannon Dam releases | | |
| 9000 Cave Spring Branch | McDonald | 0.2 | Nutrients | Nonpoint source/Simmons | M | 2003 |
| 0737 Cedar Creek | Callaway | 2 | pH, sulfate | Upper Cedar Creek coal area | L | 2000 |
| | | 1 | Sulfate | Upper Cedar Creek coal area | L | |
| | | 1 | Sulfate | Manacle, Cross-Mitchell area | L | |
| 3203 Center Creek | Jasper | 11 | Zinc | Historic mining activities | M | 2005 |
| 0640 Chariton River | Chariton | 29 | Fecal Coliform | Unknown | M | |
| 3168 Chat Creek (Douger Branch) | Lawrence | 2 | Zinc | Aurora mines area | L | 2004 |
| 3238 Clear Creek | Newton | 1 | BOD, NFR, NH ₃ N | Monett WWTP | L | 2011 |
| 3239 Clear Creek | Lawrence | 2 | BOD, NFR, NH ₃ N | Monett WWTP | L | 1999 |
| 0690 Dark Creek | Randolph | 8 | Sulfate | Crutchfield coal area | L | 2006 |
| 0912 Davis Creek | Lafayette | 2 | Low D.O. | Odessa SE WWTP | H | 2000 |
| 0542 Dog Creek | Daviess | 5 | Sediment | Traeger Quarry | L | 2005 |
| 1145 Dry Auglaize Creek | Laclede | 1.5 | BOD, NFR | Lebanon WWTP | L | 2005 |
| 2604 Eleven Point River | Oregon | 0.4 | Chlorine | Willow Springs WWTP | L | 2003 |
| 3246 Elk River | McDonald | 21.5 | Nutrients | Livestock production | M | 2003 |
| 2168 Flat River Creek | St. Francis | 4.5 | Lead, sediment | National & Federal tailings piles | H | 2004 |
| Flat River Creek | St. Francis | 5 | Zinc | Elvins tailings pile | H | 2004 |
| 2860 Goose Creek | Madison | 0.5 | Nickel | Madison mine artesian flow | L | 1999 |
| 0883 Gabriel Creek | Morgan | 0.8 | BOD, NFR | Stover NW Lagoon | L | 2005 |
| 1007 Hinkson Creek | Boone | 11 | Unspecified | Urban nonpoint lagoon runoff | M | 2004 |
| 1251 Honey Creek | Henry | 3 | Sulfate | Reliant coal area | L | 2006 |
| 2582 Howell Creek | Oregon | 0.3 | Chlorine | West Plains WWTP | L | 2005 |
| 3256 Indian Creek | McDonald/Newton | 26 | Nutrients | Livestock production | M | 2003 |
| 3259 S. Indian Creek | Newton | 9 | Nutrients | Livestock production | M | 2003 |
| 3260 N. Indian Creek | Newton | 5 | Nutrients | Livestock production | M | 2003 |
| 3262, 3263 M. Indian Cr. | Newton | 5.5 | Nutrients | Livestock production | M | 2003 |

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule |
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|

Streams/Rivers (cont.)

| | | | | | | |
|------------------------------|----------------|------|------------------------|---------------------------------------|-------|------|
| 2681 Jacks Fork River | Shannon | 5 | Fecal coliform | Organic wastes | H | 2003 |
| 2347, 2362, 2365 James River | Greene/Stone | 59 | Nutrients, unknown | Urban nonpoint runoff | H | 2000 |
| 1016 Kelley Branch | Boone | 1 | Habitat loss | ORV use Finger Lakes State Park | H | 2002 |
| 1438 Little Lindley Creek | Dallas | 1 | BOD, NFR | Buffalo WWTP | L | |
| 0427 E. Fk. Little Blue R. | Jackson | 0.1 | BOD, NFR | Independence MHP | L | 2004 |
| 0535 Long Creek | Caldwell | 0.2 | Sediment | Everett #6 Quarry | L | 2005 |
| 2814 Main Ditch | Butler | 4 | Low D.O. | Poplar Bluff WWTP | **(3) | 2003 |
| 0742 Manacle Creek | Callaway | 2 | pH, sulfate | Manacle Creek coal area | L | 2000 |
| 1308 Marmaton River | Vernon | 49.5 | Natural Background | Nonpoint Sources | L | TBD |
| 2787 McKenzie Creek | Wayne | 0.5 | pH | Gads Hill Quarry | L | 2003 |
| 1234 Monegaw Creek | St. Clair | 3 | Sulfate | Montee coal area | L | 2006 |
| 0942 N. Moreau Creek | Moniteau | 10 | NFR | California S. WWTP | L | 1999 |
| 1300 Mound Branch | Bates | 1 | Ammonia, BOD | Butler WWTP | H | 2005 |
| 0856 L. Muddy Creek | Pettis | 0.7 | Temperature | Tyson's Foods, Inc. | L | 2000 |
| 0855 Muddy Creek | Pettis | 33 | BOD | Sedalia WWTP | L | 2001 |
| 1305 Mulberry Creek | Bates | 8 | Sulfate | Mulberry Creek coal area | L | 2004 |
| 3652 Little Osage River | Vernon | 16 | Natural Background | Nonpoint Sources | L | TBD |
| 1031 Osage River | Miller/Cole | 0.4 | Habitat loss | In-stream gravel dredging | H | 2004 |
| 3268 Patterson Creek | McDonald | 2 | Nutrients | Livestock production | M | 2003 |
| 2375 Pearson Creek | Greene | 1.5 | Unknown toxicity | Unknown | M | 2003 |
| 2614 Piney Creek | Oregon | 0.1 | Chlorine | Alton STP | L | 2005 |
| 1714 Rock Creek | Jefferson | 2 | BOD, Ammonia | 2 WWTPs | H | 1999 |
| 1014 Rocky Fork | Boone | 0.5 | Sediment | ORV use Finger Lakes State Park | H | 2002 |
| 0278 Rush Cr. | Platte | 4 | BOD, NFR | Platte Co. Sewer District | L | 1999 |
| 1381 L. Sac River | Polk | 29 | Fecal coliform | Springfield NW | L | 2003 |
| 2859 Saline Creek | Madison | 0.5 | Nickel | Madison mine artesian flow | L | 1999 |
| 2190 Saline Creek | Jefferson | 2 | BOD, NH ₃ N | Ron Rog STP | L | 1998 |
| 0091 Salt River | Ralls | 29 | Manganese | Cannon Dam releases | M | TBD |
| | | | Iron | Cannon Dam releases | M | TBD |
| 1319 Second Nicholson Creek | Barton | 3 | Sulfate | Several coal areas | L | 2004 |
| 2170 Shaw Branch | St. Francis | 2 | Lead, sediment | Federal tailings (St. Joe State Park) | H | 2006 |
| 2120 Shubboleth Creek | Washington | 0.5 | Sediment | Barite tailings pond | H | 2008 |
| 3230 Shoal Creek | Barry | 13.5 | Fecal coliform | Unknown agricultural source(s) | M | 2003 |
| 0400 W. Fk. Sni-a-Bar Cr. | Jackson | 6 | BOD, NFR | Lake Lotawana | L | 2005 |
| 2835 St. Francis River | St. Francis | 3 | Ammonia, BOD | Farmington W. WWTP | H | 1999 |
| 1361 Stockton Branch | Cedar | 2 | NFR | Stockton Lagoon | L | 2006 |
| 0959 Straight Fork | Morgan | 2 | NFR | Versailles Lagoon | L | 2005 |
| 3250 B. Sugar Creek | McDonald/Barry | 35 | Nutrients | Livestock production | M | 2003 |
| 3249 L. Sugar Creek | McDonald | 11 | Nutrients | Livestock production | M | 2003 |
| 0686 Sugar Creek | Randolph | 1 | pH | Huntsville Gob coal area | L | 2001 |
| | | 0.5 | pH | Calfee Slope coal area | L | 2001 |
| 1282 E. Fk. Tebo Creek | Henry | 1 | pH | Triple coal area | L | 2004 |
| 1284 M. Fk. Tebo Creek | Henry | 6.5 | Sulfate | New Castle coal area | L | 2001 |
| 1288 M. Fk. Tebo Creek | Henry | 2 | pH, sulfate | New Castle coal area | L | 2001 |
| | | 1.5 | Sulfate | New Castle coal area | L | |
| 1292 W. Fk. Tebo Creek | Henry | 7 | Sulfate | Spangler coal area | L | 2004 |

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule |
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|

Streams/Rivers (cont.)

| | | | | | | |
|----------------------------|-----------------|-----|------------------|--|-----|------|
| 2850 Trace Creek | Madison | 4.2 | pH | Source unknown, possible acid deposition | L | 2006 |
| | | 1.3 | pH | Source unknown, possible acid deposition and sawdust pile leachate | H | |
| 1211 Trib. Barker=s Creek | Henry | 0.3 | pH | Grey coal area | L | 2001 |
| 1225 Trib. Big Otter Creek | Henry/St. Clair | 1 | pH | Otter Creek coal area | (2) | 2004 |
| 2128 Trib. Pond Creek | Washington | 0.5 | Sediment | Barite tailings pond | H | 2008 |
| 3217 Turkey Creek | Jasper | 5 | Zinc | Duenweg mines area | L | 2005 |
| 3216 Turkey Creek | Jasper | 3.5 | Zinc | Duenweg, Lone Elm and Leadville Hollow mines area | L | 2005 |
| 3282 Turkey Creek | St. Francois | 1.5 | BOD, NFR | Bonne Terre | L | 2005 |
| 3490 Tyson's Branch | Pettis | 0.4 | Temperature | Tyson's Foods, Inc. | L | 2000 |
| 2864 Village Creek | Madison | 0.5 | Sediment | Mine la Motte tailings | H | 2006 |
| 1505 Whetstone Creek | Wright | 2 | BOD | 2 Mountain Grove WWTPs | H | 2000 |
| 2375 Wilson Creek | Greene | 14 | Unknown toxicity | Unknown | M | 2003 |

Lakes

| | | | | | | |
|-------------------------------|-----------|--------|---------------------|--------------------------|---|------|
| 7119 Cameron Lake (Lower) | DeKalb | 96 | Atrazine | Corn, sorghum production | H | TBD |
| 7120 Cameron Lake #1 | DeKalb | 25 | Atrazine | Corn, sorghum production | H | TBD |
| 7121 Cameron Lake #2 | DeKalb | 35 | Atrazine | Corn, sorghum production | H | TBD |
| 7237 Fellows Lake | Greene | 820 | Algae | Ag/urban nonpoint source | M | 2004 |
| 7124 Hamilton | Caldwell | 80 | Cyanazine | Corn, sorghum production | M | TBD |
| 7190 Higginsville S. Lake | Lafayette | 223 | Atrazine | Corn, sorghum production | M | TBD |
| 7022 LaBelle Lake #1 | Lewis | 17 | Atrazine | Corn, sorghum production | M | 2003 |
| 7023 LaBelle Lake #2 | Lewis | 112 | Atrazine | Corn, sorghum production | M | 2003 |
| 7205 Lake of the Ozarks | Benton | 50 | Low D.O. | Truman Dam | M | 2007 |
| | | | Gas supersaturation | Truman Dam | M | |
| | | | Fish trauma | Truman Dam | M | |
| 7314 Lake Taneycomo | Taney | 1,730 | Low D.O. | Table Rock Dam | M | 2007 |
| 7356 Lamar Lake | Barton | 180 | Algae | Ag nonpoint source | M | 2004 |
| 7033 Mark Twain Lake | Monroe | 18,600 | Atrazine | Corn, sorghum production | M | TBD |
| 7236 McDaniel Lake | Greene | 300 | Algae | Ag/urban nonpoint source | M | 2003 |
| 7031 Monroe City Route J Lake | Ralls | 94 | Atrazine | Corn, sorghum production | H | 2003 |
| | | | Cyanazine | Corn, sorghum production | H | 2003 |
| 7187 Spring Fork Lake | Pettis | 178 | Algae | Ag nonpoint source | M | 2004 |
| 7077 Smithville Lake | Clay | 7,190 | Atrazine | Corn, sorghum production | H | TBD |
| 7032 Vandalia Lake | Audrain | 37 | Atrazine | Corn, sorghum production | M | 2003 |

CATEGORY 2
RECOMMENDED SECTION 303(d) WATERS REQUIRED TO HAVE ADDITIONAL
MONITORING PRIOR TO TMDL DEVELOPMENT

| Water | County | Miles/Acres | Pollutant | Source | Priority | Schedule |
|------------------------------|---------------|--------------------|---------------------|--------------------|---------------------|-----------------|
| | | | Affected*** | | for Analysis | |
| <u>Streams/Rivers</u> | | | | | | |
| 1250 Big Cr. | Johnson | 49 | Sediment* | Ag nonpoint source | H | 2009 |
| 0449 W. Fk. Big Cr. | Harrison | 18 | Sediment | Ag nonpoint source | L | 2008 |
| 0436 Big Muddy Cr. | Daviess | 8 | Sediment *+ | Ag nonpoint source | H | 2008 |
| 0653 Blackbird Cr. | Adair | 6 | Sediment+ | Ag nonpoint source | H | 2005 |
| 0921 S. Fk. Blackwater | Johnson | 5 | Sediment* | Ag nonpoint source | H | 2009 |
| 1336 Clear Cr. | Vernon | 18 | Sediment+ | Ag nonpoint source | H | 2005 |
| 0372 E. Fk. Crooked Cr. | Ray | 14 | Sediment | Ag nonpoint source | L | 2008 |
| 1325 L. Drywood Cr. | Vernon | 17 | Sediment | Ag nonpoint source | L | 2005 |
| 0189 Elkhorn Cr. | Montgomery | 19 | Sediment | Ag nonpoint source | L | 2009 |
| 0056 N. Fabius R. | Marion | 82 | Sediment, Manganese | Ag nonpoint source | L | 2007 |
| 0865 Flat Cr. | Pettis | 20 | Sediment+ | Ag nonpoint source | H | 2006 |
| 0502 Grindstone Cr. | DeKalb | 16 | Sediment | Ag nonpoint source | L | 2009 |
| 0457 E. Fk. Grand R. | Gentry | 25 | Sediment | Ag nonpoint source | L | 2008 |
| 0468 M. Fk. Grand R. | Gentry | 25 | Sediment+ | Ag nonpoint source | H | 2006 |
| 0337 Honey Cr. | Nodaway | 8.5 | Sediment | Ag nonpoint source | L | 2009 |
| 0554 Honey Cr. | Livingston | 23 | Sediment | Ag nonpoint source | L | 2009 |
| 0212 Indian Camp Cr. | Warren | 0.3 | Ammonia, Sediment | JZ Landfill | H | 2005 |
| 0606 Locust Cr. | Chariton | 84 | Sediment | Ag nonpoint source | L | 2009 |
| 0612 W. Fk. Locust Cr. | Linn | 17 | Sediment+ | Ag nonpoint source | H | 2009 |
| 0339 Long Branch | Nodaway | 6 | Sediment | Ag nonpoint source | L | 2009 |
| 0875 Lake Cr. | Pettis | 15 | Sediment | Ag nonpoint source | L | 2009 |
| 3106 Lat.#2 Main Ditch | Stoddard | 11.5 | Sediment * | Ag nonpoint source | H | 2009 |
| 0508 Marrowbone Cr. | Daviess | 11 | Sediment | Ag nonpoint source | L | 2009 |
| 0619 E. Fk. Medicine Cr. | Sullivan | 36 | Sediment *+ | Ag nonpoint source | H | 2005 |
| 0623 L. Medicine Cr. | Mercer | 40 | Sediment *+ | Ag nonpoint source | H | 2005 |
| 1299 Miami Cr. | Bates | 18 | Sediment | Ag nonpoint source | L | 2005 |
| 2124 Mill Creek | Lincoln | 4 | Sediment | Ag nonpoint source | L | 2009 |
| Mississippi River | All | entire length | Habitat loss | Channelization | M | 2005 |
| Missouri River | All | entire length | Habitat loss | Channelization | M | 2005 |
| 0345 White Cloud Cr. | Andrew | 11 | Sediment | Ag nonpoint source | L | 2009 |
| 0674 Mussel Fork | Sullivan | 29 | Sediment+ | Ag nonpoint source | H | 2004 |
| 1175 W. Fk. Niangua R. | Webster | 0.5 | BOD,NFR | Marshfield WWTP | H | TBD |
| 0081 North R. | Marion | 40 | Sediment | Ag nonpoint source | M | 2009 |
| 3041 Old Ch. Little R. | Scott | 20 | Sediment * | Ag nonpoint source | H | 2009 |
| 1444 Piper Cr. | Polk | 0.5 | NFR | Bolivar WWTP | H | 2005 |
| 0327 3rd Fk. Platte R. | DeKalb | 31.5 | Sediment | Ag nonpoint source | L | 2009 |
| 0121 M. Fk. Salt R. | Monroe | 49 | Sediment | Ag nonpoint source | L | 2009 |
| 3134 Spillway Ditch | Mississippi | 13.5 | Sediment* | Ag nonpoint source | H | 2009 |
| 0657 Spring Cr. | Adair | 18 | Sediment+ | Ag nonpoint source | H | 2003 |
| 1870 Spring Cr. | Dent | 0.3 | BOD, NFR | Salem WWTP | H | 2005 |
| 3188 N. Fk. Spring R. | Barton | 51.5 | Sediment | Ag nonpoint source | L | 2005 |
| 0710 Stinson Cr. | Callaway | 0.5 | BOD, Ammonia | Fulton WWTP | H | 2003 |
| 0248 L. Tarkio Cr. | Atchison | 17.5 | Sediment+ | Ag nonpoint source | H | 2009 |

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule |
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|

Streams/Rivers (cont.)

| | | | | | | |
|----------------------|-------|-----|-----------|----------------------|---|------|
| 0073 Troublesome Cr. | Lewis | 3.5 | Sediment+ | Ag nonpoint source | H | 2008 |
| 1339 Walnut Cr. | Cedar | 1.0 | BOD,NFR | El Dorado Spgs. WWTP | H | 2005 |
| 0050 S. Wyaconda R. | Clark | 9.0 | Sediment+ | Ag nonpoint source | H | 2008 |

Lakes

| | | | | | | |
|-----------------------|-------|------|-----------|--------------------------|---|------|
| 7171 Long Branch Lake | Macon | 2430 | Cyanazine | Corn, sorghum production | H | 2005 |
| 7009 Wyaconda Lake | Clark | 8 | Atrazine | Corn, sorghum production | H | 2004 |

* stream has significant amounts of channelization

+ large Concentrated Animal Feeding Operations in this watershed

CATEGORY 3
RECOMMENDED SECTION 303(d) WATERS REQUIRED TO HAVE USE ATTAINABILITY ANALYSES OR TMDL DEVELOPMENT

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule |
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|
|-------|--------|-------------------------|-----------|--------|-----------------------|----------|

Streams/Rivers

| | | | | | | |
|----------------------|---------|----|-----------|------------------------|---|------|
| 0417 Blue River | Jackson | 4 | Chlordane | Urban nonpoint sources | L | 2003 |
| 0418 Blue River | Jackson | 9 | Chlordane | Urban nonpoint sources | L | 2003 |
| 0419 Blue River | Jackson | 9 | Chlordane | Urban nonpoint sources | L | 2003 |
| 0421 Blue River | Jackson | 2 | Chlordane | Urban nonpoint sources | L | 2003 |
| 0037 Fox River | Clark | 12 | Manganese | Natural | L | 2007 |
| 0046 Wyaconda River | Lewis | 8 | Manganese | Natural | L | 2007 |
| 0063 M. Fabius River | Lewis | 57 | Manganese | Natural | L | 2007 |

Lakes

| | | | | | | |
|-------------------------|--------------|--------|-----------|-----------------------|---|------|
| 7255 Creve Coeur Lake | St. Louis | 300 | Chlordane | Urban nonpoint runoff | L | 2003 |
| 7054 Lake St. Louis | St. Charles | 525 | Chlordane | Urban nonpoint runoff | L | 2003 |
| 7211 Pleasant Hill Lake | Cass | 115 | Chlordane | Urban nonpoint runoff | L | 2003 |
| 7207 Truman Lake | Bates-Benton | 55,600 | Manganese | Natural | L | 2005 |

Notes:

* Pending Use Attainability Study (U.A.S.).

** Use Attainability Study completed.

*** Units are in miles for streams and surface acres for lakes.

(1) To be proposed for site specific criteria for D.O. based on U.A.S. at Poplar Bluff.

(2) Reclamation project in progress. Post-reclamation water quality & 303(d) status to be determined.

(3) U.A.S. Conducted by MO DNR in 1992.

Abbreviations:

| | | | |
|-----------------|--------------------------|------|----------------------------|
| AML | Abandoned mined land | Pb | Lead |
| BOD | Biological oxygen demand | pH | Acidic conditions |
| Co | Cobalt | STP | Sewage Treatment Plant |
| D.O. | Dissolved oxygen | TBD | To be determined |
| NFR | Non-filterable residue | TDS | Total dissolved solids |
| NH ₃ | Ammonia | WWTP | Wastewater treatment plant |
| Ni | Nickel | Zn | Zinc |
| NPS | Nonpoint source | | |

SECTION 303(d) WATERS

STATE OF MISSOURI

April 17, 1999

The following waters were added to the Missouri 1998 Section 303(d) list of waters by the U.S. Environmental Protection Agency.

| Water | County | Miles/Acres Affected*** | Pollutant | Source | Priority for Analysis | Schedule for Analysis |
|-------------------------|----------|----------------------------|--------------------|---------------------|--------------------------|--------------------------|
| <u>Streams/Rivers</u> | | | | | | |
| 640 Chariton River | Chariton | 29 | Fecal Coliform | Unknown | M | TBD |
| 856 Little Muddy Creek | Pettis | 0.7 | Temperature | Tyson=s Foods, Inc. | L | TBD |
| 3490 Tyson=s Branch | Pettis | 0.4 | Temperature | Tyson=s Foods, Inc | L | TBD |
| 3652 Little Osage River | Vernon | 16 | Natural Background | Nonpoint sources | L | TBD |
| 1308 Marmaton River | Vernon | 49.5 | Natural Background | Nonpoint sources | L | TBD |